

ABCD4 rabbit pAb**Cat#: orb764442 (Manual)**

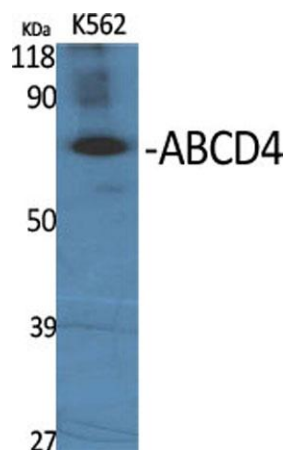
For research use only. Not intended for diagnostic use.

Product Name	ABCD4 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ABCD4. AA range:111-160
Specificity	ABCD4 Polyclonal Antibody detects endogenous levels of ABCD4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	ATP-binding cassette sub-family D member 4
Gene Name	ABCD4
Cellular localization	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Targeted by LMBRD1 lysosomal chaperone to the lysosomal membrane. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

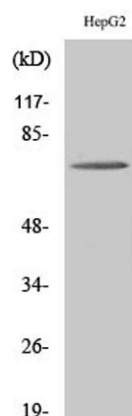
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	70kD
Human Gene ID	5826
Human Swiss-Prot Number	O14678
Alternative Names	ABCD4; PXMP1L; ATP-binding cassette sub-family D member 4; PMP70-related protein; P70R; Peroxisomal membrane protein 1-like; PXMP1-L; Peroxisomal membrane protein 69; PMP69

Background

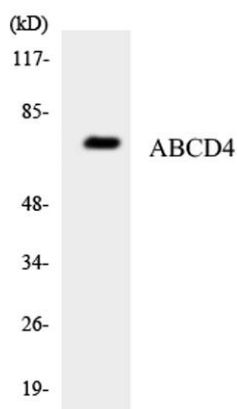
The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ALD subfamily, which is involved in peroxisomal import of fatty acids and/or fatty acyl-CoAs in the organelle. All known peroxisomal ABC transporters are half transporters which require a partner half transporter molecule to form a functional homodimeric or heterodimeric transporter. The function of this peroxisomal membrane protein is unknown. However, it is speculated that it may function as a heterodimer for another peroxisomal ABC transporter and, therefore, may modify the adrenoleukodystrophy phenotype. It may also play a role in the process of peroxi



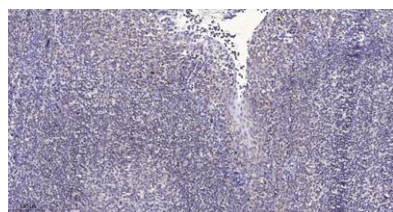
Western Blot analysis of various cells using ABCD4 Polyclonal Antibody diluted at 1:500



Western Blot analysis of HepG2 cells using ABCD4 Polyclonal Antibody diluted at 1:500



Western blot analysis of the lysates from HeLa cells using ABCD4 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).